

| Subjects | Original SNPs | Overlap with 1714 Schizophrenia SNPs | Number of coding overlap SNPs (target gene)                                | Number of noncoding overlap SNPs |
|----------|---------------|--------------------------------------|--|----------------------------------|
| Z        | 3559138       | 828                                  | 7("CNPPD1" "DNAH1" "ITIH3" "GPR98" "GABBR2" "ADAMTSL3" "CENPM" )           | 821                              |
| S        | 3521063       | 774                                  | 8("SLC39A8" "GPR98" "KDM4C" "DNAH1" "ITIH3" "ADAMTSL3" "DNAJA3" "GABBR2" ) | 766                              |
| NA       | 3595421       | 793                                  | 6("KDM4C" "CNPPD1" "DNAH1" "ADAMTSL3" "DNAJA3" "GABBR2")                   | 787                              |

| Subjects | Original SNPs | Overlap with 43 Bipolar disorder SNPs | Number of coding overlap SNPs (target gene) | Number of noncoding overlap SNPs |
|----------|---------------|---------------------------------------|---|----------------------------------|
| Z        | 3559138       | 15                                    | 1 ("SYNE1")                                 | 14                               |
| S        | 3521063       | 15                                    | 1("SYNE1")                                  | 14                               |
| NA       | 3595421       | 11                                    | 1("SYNE1")                                  | 10                               |